

drive shafts, said drive belt means comprising a double-sided toothed belt trained about said first and second toothed drive pulleys so that one side of said toothed belt meshes with one of said toothed drive pulleys, and the other side of the toothed belt meshes with the other one of said toothed drive pulleys for effecting counter-rotation of said first and second drive shafts.

5. A vibratory apparatus in accordance with claim 4, including

an adjustable roller pulley mounted on said housing and engageable with said toothed belt for adjusting the tension of said toothed belt.

6. A vibratory apparatus in accordance with claim 2, wherein

said housing comprising a pair of spaced apart mounting plates on which each of said pairs of bearings are respectively mounted, said vibratory weights being positioned within said housing between said mounting plates,

said housing further including a pair of end plates each extending between respective opposite ends of said mounting plates to configure said housing as a fabricated composite beam assembly to facilitate mounting of said vibratory apparatus;

first and second vibratory weights respectively eccentrically mounted on said first and second drive shafts, said vibratory weights being mounted so that counter-rotation of said drive shafts causes said weights to create vibratory forces through said housing perpendicular to the axes of said drive shafts;

first and second drive pulleys respectively mounted on said shafts;

drive belt means interconnecting said first and second drive pulleys for synchronous counter-rotation of said first and second drive shafts; and

drive motor means operatively connected with at least one of said drive shafts for effecting driven counter-rotation of said drive shafts and vibratory motion of said eccentrically mounted vibratory weights.

7. A vibratory apparatus, comprising

a housing comprising a pair of spaced apart mounting plates, and a pair of end plates each extending between respective opposite ends of said mounting plates to configure said housing as a fabricated composite beam assembly;

first and second counter-rotating drive shafts rotatably mounted on said housing in parallel relationship to each other;

first and second pairs of bearings respectively rotatably mounting said first and second drive shafts on said housing, said bearings being mounted on and accessible from an exterior surface of said housing;

first and second vibratory weights respectively eccentrically mounted on said first and second drive shafts within said housing, said vibratory weights being mounted so that counter-rotation of said drive shafts causes said weights to create vibratory forces through said housing perpendicular to the axes of said drive shafts;

first and second toothed drive pulleys respectively mounted on said shafts;

double-sided drive belt means interconnecting said first and second drive pulleys for counter-rotation of said first and second drive shafts; and

drive motor means operatively connected with at least one of said drive shafts for effecting driven counter-rotation of said drive shafts and vibratory motion of said eccentrically mounted vibratory weights.

8. A vibratory apparatus in accordance with claim 7, wherein

said first and second toothed drive pulleys are sized to effect counter-rotation of said first and second drive shafts at the same speed.

9. A vibratory apparatus in accordance with claim 8, wherein

said vibratory weights are positioned on said drive shafts to create said vibratory forces perpendicular to the axes of said shafts and to a plane intersecting the axes of the shafts.

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